

FUSION4 SSC



UPGRADE YOUR INJECTION AND BLENDING CONTROL

Zero in on accuracy. The Fusion4 Single Stream Controller (SSC) combines the most advanced hardware with the most intuitive, efficient and accurate controller on the market for precise single stream additive injection and blending. Benefit from intelligent features like modular I/O for scalable functionality, the Diagnostics Dashboard for rapid fault finding, a Calibration Wizard for automated W&M calibration records, and multiple language support. Meanwhile, the optional local access device adds even more enhanced security and functionality.

PRECISION BY DESIGN

Fusion4 SSC controls the industry standard MonoBlock metering manifold or third-party metering hardware. This is designed exclusively to manage chemical injection or blending operations and continuously monitor the correct additive or blending volume, ensuring the ratio is correct at every point in the transaction. Every dosing adds the precise amount needed to maintain the ratio, providing unmatched accuracy, reducing giveaways and saving you money.

A STANDARD PLATFORM FOR MORE EFFICIENT OPERATIONS

Fusion4 SSC is the first controller with identical hardware and different firmware used to implement blending or additive control. A common platform for both means more efficient maintenance, a lighter inventory for spares and quicker training for personnel.

SIMPLE CONFIGURATION AND UPDATES

Configure it from new in less than 45 seconds with the smart, handheld Local Access Device (LAD) for a quicker, more efficient start-up, and use the LAD again to update firmware live in the field, boosting productivity.

FLEXIBLE I/O AND INTERFACING

Assign functions to any input or output with configurable I/O. Flexible interfacing is possible with Fusion4 MSC-L or Fusion4 Portal software package. It also supports standard communication protocols such as Modbus for interfacing.

SMART CALIBRATION AND DIAGNOSTICS

The Fusion4 SSC also includes a Calibration Wizard to automatically capture every calibration transaction (including time stamps, calibration volumes, k-factor corrections and even meter serial numbers), for greater efficiency. The Diagnostics Dashboard for complete hardware monitoring from a single screen, helps boost reliability and reduces maintenance.

EASY MAINTENANCE

The LAD facilitates two way data communications between the Fusion4 SSC and the LAD, allowing rapid, secure transfer of transaction data, configuration files and calibration records. Simple to configure and maintain, Fusion4 SSC also compatible with a handheld infra-red controller for adjusting parameters, resetting alarms and calibration.

POWERFUL LOGGING

The Fusion4 SSC can store 10,000 transaction logs, 128 alarm logs and 100 calibration logs.

Advanced alarm handling, meanwhile, monitors nearly twice as many control parameters than any other device, while its 3.5" QVGA full colour screen clearly annunciates and differentiates all alarm conditions.

A BETTER SOLUTION

- **Multiple language support:** English (US), English (UK), Chinese, Japanese, French, Spanish, Portuguese, Italian, Dutch, German and Polish.
- **Rapid start-up:** With the Calibration Wizard and 45-second configuration
- **Zero-downtime:** Firmware upgrades live in the field with the LAD
- **Configurable, expandable I/O:** For flexible operations and easy start-up
- **Huge transaction archives:** Up to 10,000 transaction records
- **Advanced alarm handling:** Monitor nearly twice as many injection control parameters than any other device
- **Real-time diagnostics:** From the diagnostics dashboard

TRUST US

- Over 60 years' experience in terminal operations
- Inventor of the smart additive injection controller
- Solutions for every application
- Local support with global expertise
- A single source provider with wide portfolio
- MID approved blending controller, so blend accuracy never compromised.

KEEPING YOU IN CONTROL

OPTIONS TO SUIT YOUR OPERATION

- Our controller hardware is certified to be installed in hazardous areas classified as Class I Div I as per NEC standard or Zone I as per IEC standard. In addition, it carries multiple agency approvals such as ATEX, IECEx, CCOE, FM, and CSA, ensuring that it meets the most rigorous safety requirements globally.
- Our versatile controller can be ordered with an Optional IO board, with or without enclosure, or MID compliance blend control required by EU countries.
- Field entry plugs: Exd blanking plug can be supplied with sufficient plugs to secure all unused cable entries following installation.
- Enclosure venting with an optional Breather Drain for use where an installation is subject to fluctuations in temperature that can lead to condensation and moisture build-up. Preventing moisture build-up within the enclosure whilst ensuring the integrity and Ex approval of the installation is maintained the Breather Drain will also maintain the IP66 rating of the enclosure.



TECHNICAL SPECIFICATIONS

Approvals		
ATEX	II 2 G Ex d [ia] IIB T6 Gb	
IECEX	Ex d [ia] IIB T6	
FM	Class1 Div1 Group C&D T6	
CSA/CUL	Class1 Div1 Group C&D T6	
MID	Accuracy Class 0,5	
Environmental	ATEX/ IEC Ex	FM/UL
Operating Temperature	-40 °C to +65 °C	-40 °F to +149 °F
Storage Temperature	-40 °C to +85 °C	-40 °F to +185 °F
Protection Class	IP66	IP66
Humidity	5% - 95% Non-Condensing	5% - 95% Non-Condensing
Materials		
Enclosure	Aluminum, Chromatized (class 3)	
Connections		
Cable Entries	4 x M20 & 4 x M25	4 x 1" NPT
Electrical		
Voltage	88 to 264 Vac	
Flow Meter Inputs	1 x 5 kHz dual input, 1 x 5kHz single input	
DC Inputs	2 x configurable	
AC Inputs	2 x configurable	
DC Outputs	2 x configurable	
AC Outputs	3 x configurable	
Communications	1 x 2 wire or 4 wire RS485	
Interface		
Protocols	Modbus RTU, FlexConn, FMC Smith, Brooks Petrocount	
Display	3.5" QVGA color TFT LCD screen	
Languages	English (US), English (UK), French, German, Spanish, Dutch, Chinese, Japanese, Polish, Italian, Portuguese	
Handheld Devices	Fusion4 LAD (Local Access Device), Fusion4 IR Controller (Infrared)	
Weight		
Unit weight	35 lb / 16 kg (approx)	
Options	Product Number	
Fusion4 LAD FM (Local Access Device)	323-1392002	
Fusion4 LAD CSA (Local Access Device)	323-1392003	
Fusion4 LAD ATEX & IECEX (Local Access Device)	323-1392004	
Fusion4 IR Controller (UL)	10-31052	
Fusion4 IR Controller (ATEX)	10-31052-F4	
Fusion4 IR Controller (IECEX)	10-31052-F4X	

IDENTIFICATION CODE

Fusion4 Single Stream Controller (SSC) ATEX

CV 1-6	Product Family	Availability
HEL81	Fusion4 SSC-A Controller ATEX (Additive Application)	↓
HEL84	Fusion4 SSC-B Controller ATEX (Blend Application)	↓
CV 7	Enclosure	
0	Not Requested	•
E	SSC Ex Enclosure	•
CV 8	Option Board	
0	Not Requested	•
C	Can-Option Board	•
CV 9	Firmware	
A	Additive	•
B	Blending	•
C	Blending - MID compliant Control	h
CV 10	Mounting options	
0	Not Requested	•
1	MiniPak Back Plate (no block)	d
CV 11	Field Entry Plugs	
0	Not Requested	•
1	4 x M20 Exd Blanking plugs	b
2	4 x M25 Exd Blanking plugs	b
3	4 x M20 & 4 x M25 Exd Blanking plugs (full)	b
4	Breather only no plugs	b
5	4 x M20 Exd Blanking plugs + Breather	b
6	4 x M25 Exd Blanking plugs + Breather	b
7	4 x M20 & 4 x M25 Exd Blanking plugs (full) + Breather	b
CV 12	Ex Approvals	
0	None	f
A	ATEX	b
B	IECEX	b
C	CCOE (India)	b

CV's	1	2	3	4	5	6	7	8	9	10	11	12
Value	H	E	L	C	8	1	E	C	B	0	7	A

H E L C -8 -1 -E

Restrictions Table				
Restriction Letter	Only Available with Selection		Not Available with Selection	
	CV	Selection	CV	Selection
b	7	E		
d			7	0
f	7	E		
h	8	C		

IDENTIFICATION CODE *(continued)*

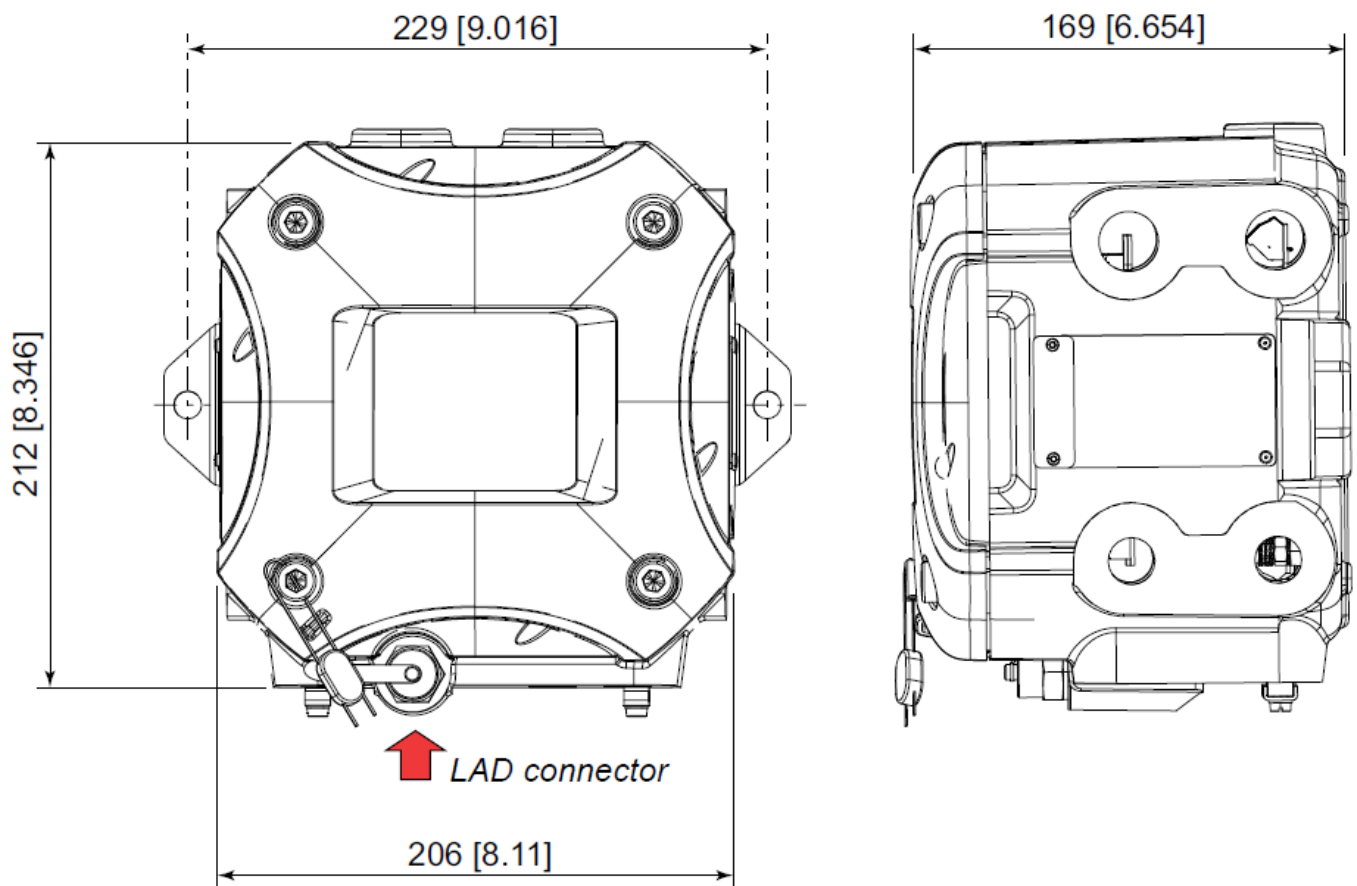
Fusion4 Single Stream Controller (SSC) FM

CV 1-6	Product Family	Availability
HELC85	Fusion4 SSC-A Controller FM/UL (Additive Application)	↓
HELC88	Fusion4 SSC-B Controller FM (Blend Application)	↓
CV 7	Enclosure	
0	Not Requested	•
F	SSC FM Enclosure	•
CV 8	Option Board	
0	Not Requested	•
C	Can-Option Board	•
CV 9	Firmware	
A	Additive	•
B	Blending	•
CV 10	Mounting options	
0	Not Requested	•
C	Spacer Plate FM Version	•
CV 11	Field Entry Plugs	
0	Not Requested	•
4	Breather only no plugs	•
A	2 x 1" NPT Exd Blanking Plugs	g
B	4 x 1" NPT Exd Blanking Plugs	g
C	2 x 1" NPT Exd Blanking Plugs + Breather	g
D	4 x 1" NPT Exd Blanking Plugs + Breather	g
CV 12	Ex Approvals	
0	None	f
D	FM	g
E	CSA	g

CV's	1	2	3	4	5	6	7	8	9	10	11	12
Value	H	E	L	C	8	8	F	A	A	C	D	D
	H	E	L	C	-8	-8	-F					

Restrictions Table				
Restriction Letter	Only Available with Selection		Not Available with Selection	
	CV	Selection	CV	Selection
F	7	0		
G	7	F		

DIMENSIONAL DRAWING



Main dimensions of the SSC-B in mm [inches]

For more information

To learn more about Honeywell Enraf's solutions, contact your Honeywell Enraf account manager or visit <https://process.honeywell.com/us/en/products/terminals/loading-and-additive-products/additive-injection-solutions>

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